DATAPORT CHANNEL UNITS

PRESERVICE TESTING

This Section provides procedures for performing preservice tests on D448 dataport channel units.

Whenever this Section is reissued, the reasons for reissue will be listed in this paragraph.

Preservice testing consists of performing OCUDP and data service unit (DSU) loopbacks via data test sets used at a terminating OCUDP. Performing all loopbacks from a single location allows easy verification of all transmission paths. Therefore, testing from opposite-end OCUDP or intermediate-office DS0DP is not necessary.

If trouble occurs while performing any of these tests, and replacement of the unit does not clear the trouble, refer to Section ITTR-18-550 for trouble location procedures.

CHART 1

PRESERVICE TESTING FOR OCUDP

APPARATUS:

1—Data test set transmitter (ITT 628456-000-001, WE KS-20909, or equivalent)

1—Data test set receiver (ITT 628457-000-001, WE KS-20908, or equivalent)

1—Data test interface (DTI) (ITT 628458-000-001)

STEP	PROCEDURE
	Note 1: The following procedures should be performed for each OCUDP equipped.
	Note 2: For purposes of these procedures, the tester should designate one of the terminating D448 terminals as near-end. The choice is arbitrary and used only to simplify pretest procedures.
1	Connect data test sets as shown in Fig. 1.
	Note: DTI is required for dataport testing to synchronize data test sets to system 64.0 kb/s clock. Install DTI in appropriate common equipment slot as marked.
2	Set data test set switches as shown in Table A.
3	On transmitter, momentarily press RESET pushbutton; press and hold OCU pushbutton for 1 second.
	Requirement: OCU LOOPBACK TEST lamp turns on; BYTE PATTERN lamps on receiver flicker.

CHART 1 (Cont)

STEP	PROCEDURE

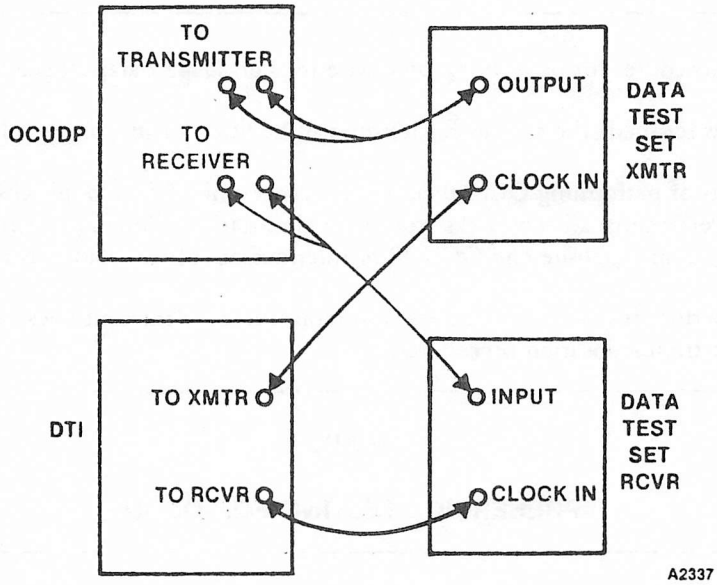

Fig. 1—Dataport Preservice Test Connections

TABLE A

TRANSMITTER		RECEIVER	
SWITCH	**POSITION**	**SWITCH**	**POSITION**
DATA RATE	Same as OCUDP	DATA RATE	Same as OCUDP
FUNCTION	LOOPBACK TEST	COUNTER	BIT ERRORS
MODE	REPEAT	TEST WORD	LOOPED
TRANSMITTER OUTPUT	NEAR LOGIC	CHANNEL	SINGLE
		RECEIVER INPUT	NEAR LOGIC

4 On receiver, momentarily set COUNTER MODE switch to RESET.

Requirement: Counter indicates 000.

CHART 1 (Cont)

STEP	PROCEDURE
5	Wait 10 seconds; set COUNTER MODE switch to HOLD.
	Requirement: Counter indicates 000.
6	On transmitter, momentarily press RESET pushbutton; press and hold DSU pushbutton for 1 second.
	Requirement: DSU LOOPBACK TEST lamp turns on; BYTE PATTERN lamps on receiver flicker.
7	On receiver, momentarily set COUNTER MODE switch to RESET.
	Requirement: Counter indicates 000.
8	Wait 10 seconds; set COUNTER MODE switch to HOLD.
	Requirement: Counter indicates 000.
9	On transmitter, set OUTPUT switch to FAR LOGIC.
10	On receiver, set INPUT switch to FAR LOGIC.
11	On transmitter, momentarily press RESET pushbutton; press and hold OCU pushbutton for 1 second.
	Requirement: OCU LOOPBACK TEST lamp turns on; BYTE PATTERN lamps on receiver flicker.
12	On receiver, momentarily set COUNTER MODE switch to RESET.
	Requirement: Counter indicates 000.
13	Wait 10 seconds; set COUNTER MODE switch to HOLD.
	Requirement: Counter indicates 000.
14	On transmitter, momentarily press RESET pushbutton; press and hold DSU pushbutton for 1 second.
	Requirement: DSU LOOPBACK TEST lamp turns on; BYTE PATTERN lamps on receiver flicker.
15	On receiver, momentarily set COUNTER MODE switch to RESET.
	Requirement: Counter indicates 000.
16	Wait 10 seconds; set COUNTER MODE switch to HOLD.
	Requirement: Counter indicates 000.
17	This completes dataport channel unit pretesting.